

IN THE CLAIMS

1. (Currently Amended) A vehicle tubing comprising:
an inner layer of aromatic polyamide forming a tubing conduit, wherein the inner layer of aromatic polyamide is electrically conductive; and
an outer layer of aromatic polyamide adjacent the inner layer of aromatic polyamide
~~tubing including a layer of aromatic polyamide defining a conduit.~~
- 2.-3. (Cancelled)
4. (Currently Amended) The vehicle tubing as recited in Claim 21, wherein each of the second-outer layer of thermoplastic material aromatic polyamide and the inner layer of aromatic polyamide includes a ~~is an outer layer having an outer layer thickness that together define~~ and the tubing has a total thickness, and the outer layer thickness of the outer layer of aromatic polyamide comprises between approximately 50% and 95% of the total thickness.
5. (Currently Amended) The vehicle tubing as recited in Claim 21, including an intermediate thermoplastic layer located between the inner layer of aromatic polyamide and the second-outer layer of thermoplastic material aromatic polyamide.
6. (Currently Amended) The vehicle tubing as recited in Claim 21, wherein the inner layer of aromatic polyamide includes an outer surface and the second-outer layer of thermoplastic material aromatic polyamide includes an inner surface, and the outer surface of the second-inner layer of thermoplastic material aromatic polyamide contacts the inner surface of the outer layer of aromatic polyamide.
7. (Currently Amended) The vehicle tubing as recited in Claim 1, wherein aromatic polyamide of the inner layer of aromatic polyamide and the outer layer of aromatic polyamide includes-include a chemical repeat unit having an amide group and an aromatic ring, and the amide group is attached to the aromatic ring.

8. (Currently Amended) The vehicle tubing as recited in Claim 1, wherein aromatic polyamide of the inner layer of aromatic polyamide and the outer layer of aromatic polyamide ~~includes~~ include amide groups and aromatic rings, and at least a portion of the amide groups are attached to aromatic rings.
9. (Original) The vehicle tubing as recited in Claim 8, wherein at least 50% of the amide groups are attached to aromatic rings.
10. (Currently Amended) The vehicle tubing as recited in Claim 8, wherein the aromatic polyamide of the inner layer of aromatic polyamide and the outer layer of aromatic polyamide ~~include~~ includes at least one of an impact-modifying agent, a heat-stabilizing agent, a heat-stabilizing agent, and a color pigment.
11. (Currently Amended) The vehicle tubing as recited in Claim 1, wherein only the inner layer of aromatic polyamide of the tubing includes ~~a~~ an electrically conductive material ~~and has an electric surface resistivity between approximately 10^3 and 10^7 ohms/square.~~
12. (Currently Amended) The vehicle tubing as recited in Claim ~~11~~ 33, wherein the electrically conductive material includes at least one of carbon powder, carbon fiber, carbon nanotubes, metal fiber, metal powder, and mixtures thereof.
13. (Currently Amended) The vehicle tubing as recited in Claim 1, wherein the outer layer of aromatic polyamide includes a corrugated outer surface.
14. (Currently Amended) A vehicle tubing comprising:
a tubing including a first layer of a first thermoplastic material aromatic polyamide
defining a conduit, the layer of aromatic polyamide including a corrugated outer surface
portionsection; and

~~— a second layer of a second thermoplastic material bonded to the first layer, wherein at least one of the first thermoplastic material and the second thermoplastic material includes an aromatic polyamide.~~

15. (Currently Amended) The vehicle tubing as recited in Claim ~~14~~34, wherein the ~~second inner layer of aromatic polyamide~~ includes a corrugated inner ~~portion~~surface section and a corrugated outer surface ~~portion~~section that ~~correspond~~corresponds to the corrugated outer surface ~~portion~~section of the ~~first~~outer layer of aromatic polyamide.

16. (Currently Amended) The vehicle tubing as recited in Claim ~~14~~34, wherein the ~~second inner layer of aromatic polyamide~~ includes a non-corrugated inner surface ~~portion~~section and a corrugated outer surface ~~portion~~section that corresponds to the corrugated outer surface ~~portion~~section of the ~~first~~outer layer of aromatic polyamide.

17. (Currently Amended) The vehicle tubing as recited in Claim ~~16~~34, wherein the tubing includes a length, the ~~first~~inner layer of aromatic polyamide has a first wall thickness and the ~~second~~outer layer of aromatic polyamide has a second wall thickness, and one of the first wall thickness and the second wall thickness is essentially constant over the length of the tubing and the other of the first wall thickness and the second wall thickness changes over the length of the tubing.

18. (Currently Amended) The vehicle tubing as recited in Claim ~~16~~34, wherein the ~~first~~outer layer of aromatic polyamide includes a non-corrugated outer surface ~~portion~~section adjacent to the corrugated outer surface ~~portion~~section along a length of the tubing.

19. (Currently Amended) The vehicle tubing as recited in Claim 18, further including ~~wherein the tubing includes a length, and the length includes~~ alternating non-corrugated outer surface ~~portions~~sections and corrugated outer surface ~~portions~~sections along the length of the tubing.

20. (Cancelled)

21. (Currently Amended) A method of resisting permeation of a fluid through a tubing wall comprising the steps of:

~~extruding the an inner layer of aromatic polyamide to form a tubing into an aromatic polyamide layer that forms a conduit;~~

extruding an outer layer of aromatic polyamide coaxially with the inner layer of aromatic polyamide; and

bonding the outer layer of aromatic polyamide to the inner layer of aromatic polyamide.

22. (Cancelled)

23. (Currently Amended) The method as recited in Claim ~~22~~21, including the step of bonding the ~~second outer layer of aromatic polyamide layer to the inner layer of aromatic polyamide layer~~ with an intermediate thermoplastic layer located there ~~between the second aromatic polyamide layer and the aromatic polyamide layer.~~

24. (Currently Amended) The method as recited in Claim 21, including the step of forming a corrugated outer surface section on the outer layer of aromatic polyamide layer.

25. (Currently Amended) The method as recited in Claim 21, including the step of adding at least one of carbon powder, carbon fiber, carbon nanotubes, metal fiber, metal powder, heat-stabilizing agent, impact-modifying agent, and mixtures thereof to the aromatic polyamide ~~before extruding the aromatic polyamide layer~~ used to extrude the inner layer of aromatic polyamide.

26.-30. (Cancelled)

31. (New) The vehicle tubing as recited in claim 3, wherein the intermediate thermoplastic layer includes polyvinylidene fluoride, ethylene chlorotrifluoroethylene, ethylene

tetrafluoroethylene, polyamide, modified polyamide, polyolefin, ethylene vinyl alcohol, polyester, polybutylene naphthalate, or combinations thereof.

32 (New) The vehicle tubing as recited in Claim 10, wherein the aromatic polyamide of inner layer of aromatic polyamide and the outer layer of aromatic polyamide includes an impact-modifying agent and a heat-stabilizing agent.

33. (New) The vehicle tubing as recited in Claim 11, wherein the inner layer of aromatic polyamide has an electric surface resistivity between approximately 10^2 and 10^7 ohms/square.

34. (New) The vehicle tubing as recited in claim 14, wherein the layer of aromatic polyamide comprises an inner layer of aromatic polyamide, and the tubing further comprises an outer layer of aromatic polyamide adjacent the inner layer of aromatic polyamide.